

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): H. MIWA, et al

Serial No.: Not yet assigned

Filed: March 11, 2004

For: CLOCK SYNCHRONIZED NON-VOLATILE MEMORY DEVICE

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

March 11, 2004

Sir:

In the matter of the above-identified application, this Information Disclosure Statement is being submitted with the following citation as specified in 37 CFR §1.97(d).

"A copy of any patent, publication or other information listed in an Information Disclosure Statement is not required to be provided if it was previously cited by or submitted to the Office in a prior application, provided that the prior application is properly identified in the statement and relied upon for an earlier filing date under 35 U.S.C. §120."

Applicant(s) are submitting herewith a copy of Form PTO-1449 which list documents cited in parent application(s) Serial No. 10/223,220, filed August 20, 2002; which is a continuation of application Serial No. 10/020,873, filed December 19, 2001; which is a continuation of application Serial No. 09/817,021, filed March 27, 2001, now U.S. Patent No. 6,366,495; which is a continuation of application Serial No. 09/583,949, filed May 31, 2000, now

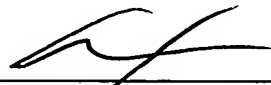
U.S. Patent No. 6,256,230; which is a continuation of application Serial No. 09/287,187, filed April 6, 1999, now U.S. Patent No. 6,111,790; which is a continuation of application Serial No. 09/053,494, filed April 2, 1998, now U.S. Patent No. 6,038,165; which is a continuation of application Serial No. 08/860,793, filed July 9, 1997, now U.S. Patent No. 5,889,698.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus Deposit Account No. 01-2135 (501.35478CX20) please credit any excess fees to such deposit account.

Respectfully submitted,

CIB/jdc
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ATTY. DOCKET NO.

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2818

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 9 6 4 0 7 9	10/90	Devin			
	5 3 6 5 4 8 6	11/94	Schreck			
	5 4 1 2 6 0 1	5/95	Sawada et al	365	185.03	
	5 8 3 1 9 0 0	11/98	Miyamoto	365	185.03	
	5 7 4 5 4 0 9	4/98	Wong et al	365	185.03	
	5 5 5 5 2 0 4	9/96	Endoh et al	365	189.01	
	5 1 5 1 3 8 7	9/92	Brady et al	437	191	4/30/90
	5 0 8 4 4 1 7	1/92	Joshi et al	437	192	3/13/89
	5 0 5 9 5 5 4	10/91	Spinner et al	437	193	6/23/89
	5 1 7 2 3 3 8	12/92	Mehrotra et al			
	5 1 3 8 5 7 6	8/92	Madurawe			
	5 4 8 7 0 3 6	1/96	Akaogi et al	365	185.23	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
5 9 1 2 1 6 9 6	7/84	Japan			XX
4 2 3 8 1 9 6	8/92	Japan			XX
4 5 7 2 9 4	2/92	Japan			XX

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Digest of Technical Papers, ATP 2.1: A 3.3V 128Mb Multi-level NAND Flash Memory for Mass Storage Applications, T. Jung, et al., ISSCC96/Session 2/Flash Memory/Paper TP 2.1, 1996 IEEE International Solid State Circuits Conf.
Betty Prince, "Semiconductor Memories", 1983, Wisely, 2 nd Edition, pp. 620-621.

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	5 6 7 7 8 6 8	10/97	Takahashi, et al	365	185	
	5 7 6 8 1 9 3	6/98	Lee, et al	365	185.25	
	5 7 5 7 6 9 9	5/98	Takeshima, et al	365	185.24	
	5 7 9 6 6 5 2	8/98	Takeshima, et al	365	185.03	
	5 7 5 4 4 6 9	5/98	Hung, et al	365	185.03	
	5 7 4 8 5 3 3	5/98	Dunlap, et al	365	185.19	
	5 7 5 4 4 7 5	5/98	Bill, et al	365	185.25	
	5 6 8 7 1 1 4	11/97	Khan	365	185.03	
	5 7 6 8 1 8 8	6/98	Park, et al	365	185.03	
	5 4 4 0 5 0 5	8/95	Fazio, et al	365	45	
	5 4 5 0 3 6 3	9/95	Christopherson	365	205	
	5 1 6 3 0 2 1	11/92	Mehrotra, et al	365	185	
	5 7 6 8 1 9 1	6/98	Choi, et al	365	185.22	
	5 5 6 6 1 2 5	10/96	Fazio	365	45	
	5 2 0 0 9 2 0	4/93	Norman, et al	365	185	
	5 6 7 5 5 3 7	10/97	Bill, et al	365	185.22	
	4 8 6 0 2 5 8	8/89	Fruhauf, et al	365	194	

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	6 0 3 8 1 6 5	3/00	Miwa	365	185.03	
	4 4 3 5 7 8 6	3/84	Tickle	365	185	
	5 6 9 4 3 5 7	12/97	Mori	365	185.03	

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	6 2 3 4 3 9 8	2/87	Japan			XX	
6	2 2 5 7 6 9 9	11/87	Japan			XX	
6	2 2 9 8 9 9 9	12/87	Japan			XX	
6	3 2 7 6 7 9 1	11/88	Japan			XX	
	2 4 0 1 9 8	2/90	Japan			XX	
	2 2 6 0 2 9 8	10/90	Japan			XX	
	3 2 3 7 6 9 2	10/91	Japan			XX	
	4 5 7 2 9 4	2/92	Japan			XX	
	4 1 8 4 7 9 4	7/92	Japan			XX	
	4 2 3 8 1 9 6	8/92	Japan			XX	
0	6 1 3 1 8 8 1	5/94	Japan			XX	
0	6 1 9 5 9 8 7	7/94	Japan			XX	
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	5 4 7 3 5 7 0	12/95	Sato et al	365	221	
	6 0 1 1 8 8 0	1/00	Tani et al	382	312	
	6 3 6 6 4 9 5	4/02	Miwa et al	365	185.03	
	6 4 5 9 6 1 4	10/02	Miwa et al	365	185.03	
	6 0 4 4 0 3 1	3/00	Iadanza et al	365	230.03	

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	0 2 1 5 4 9 7		Japan			X
	0 6 3 0 9 8 9 0	11/94	Japan			XX
	0 1 2 3 8 4 2	9/79	Japan			
	1 1 3 4 7 9 3	5/89	Japan			X
	5 2 1 0 9 9 1	8/93	Japan			XX
	6 2 5 1 5 9 1	9/94	Japan			X
	7 9 3 9 7 9	4/95	Japan			XX
	2 0 4 0 1 9 8	2/90	Japan			XX

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	4 6 9 2 8 8 6	9/87	Miki et al	364	718	
	5 4 2 2 8 5 8	6/95	Mizukami et al	365	233	
	5 5 3 9 6 8 8	7/96	Yiu, et al	365	185.14	
	5 5 4 4 0 9 9	8/96	Hara	365	185.19	
	5 6 7 7 8 6 9	10/97	Fazio, et al	365	185.03	
	5 6 1 5 1 5 3	3/97	Yiu, et al	365	185.19	

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